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(71)Applicant: SANYO ELECTRIC CO LTD

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(72)Inventor: SUEMORI ATSUSHI

SHOJI YOSHIHIRO **УАМАМОТО УИЛ**

NISHIO КОЛ

SAITO TOSHIHIKO

(54) NONAQUEOUS ELECTROLYTE SECONDARY BATTERY

(57) Abstract:

PURPOSE: To enhance cycle performance by using a specific ratio of fluorine- containing polyimide resin based on the total weight of the fluorine-containing polyimide resin and carbon powder as a binder which is dissolved in slurry for applying to a negative electrode.

CONSTITUTION: A nonaqueous electrolyte secondary battery has a negative electrode manufactured by applying slurry prepared by kneading carbon powder capable of absorbing/desorbing a cation such as a lithium ion and a binder solution obtained by dissolving a binder in an organic solvent to a current collector, then by drying and solidifying. As the binder, 0.5-5wt.% fluorine-containing polyimide resin based on the total weight of the fluorine-containing polyimide resin and the carbon powder is used. The fluorine-containing polyimide resin preferably contains a fluorine-containing polyimide bond represented by the formula.

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